

Amendments

IN THE CLAIMS:

Please cancel Claims 12, 13, 23, 25, and 26.

1. (Previously Canceled)
2. (Previously Canceled)
3. (Previously Canceled)
4. (Previously Canceled)
5. (Previously Canceled)
6. (Original) A storage medium having a plurality of tracks, the storage medium comprising:
a plurality of data sectors on each track; and
a plurality of servo sectors on each track, the number of servo sectors per track being greater than 200 servo sectors per track; each servo sector comprising a plurality of servo marks; and each servo sector having a gap, the gap having no servo marks, the length of gap being less than 7 servo clock cycles.
7. (Original) The storage medium of claim 6 wherein the number of servo sectors is greater than 1000 servo sectors per track.
8. (Original) The storage medium of claim 6 wherein the number of servo sectors is greater than 2000 servo sectors per track.
9. (Original) The storage medium of claim 6 wherein the length of the gap is less than 4 servo clock cycles.

RESPONSE TO OFFICE ACTION
Old Atty. Docket No.: IOME-0751
New Atty. Docket No. P0763

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10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Original) A disk drive for reading data from a storage medium having a plurality of tracks divided into a plurality of zones, each track having a track number encoded into the track, the disk drive comprising

a read head for reading data along a track and the track number of each track, the disk drive comprising:

a phase lock loop frequency generator that generates a first frequency derived from locking a servo signal from the storage medium;

a multiplying phase locked loop that multiplies the first frequency by a variable to derive a second frequency for use in reading data marks, the variable based upon the track number read by the disk drive; and

a reading device that uses the first frequency to read servo marks and the second frequency to read data marks.

20. (Canceled)

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21. (Canceled)
22. (Canceled)
23. (Canceled)
24. (Canceled)
25. (Canceled)
26. (Canceled)

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